

## Step I

Measure 310 miRNA expression in bulk cells:  
LAPC9  
LAPC4  
DU145



## Identification

136 miRNAs were expressed at detectable levels

## Step II

Measure 136 miRNAs in:  
LAPC9: CD44+/CD44-  
LAPC4: CD44+/CD44-; CD133+/CD133-  
DU145: CD44+/CD44-;  $\alpha$ 2 $\beta$ 1+/ $\alpha$ 2 $\beta$ 1-



## Identification

6 miRNAs were differentially expressed in 5 marker-positive populations

## Step III

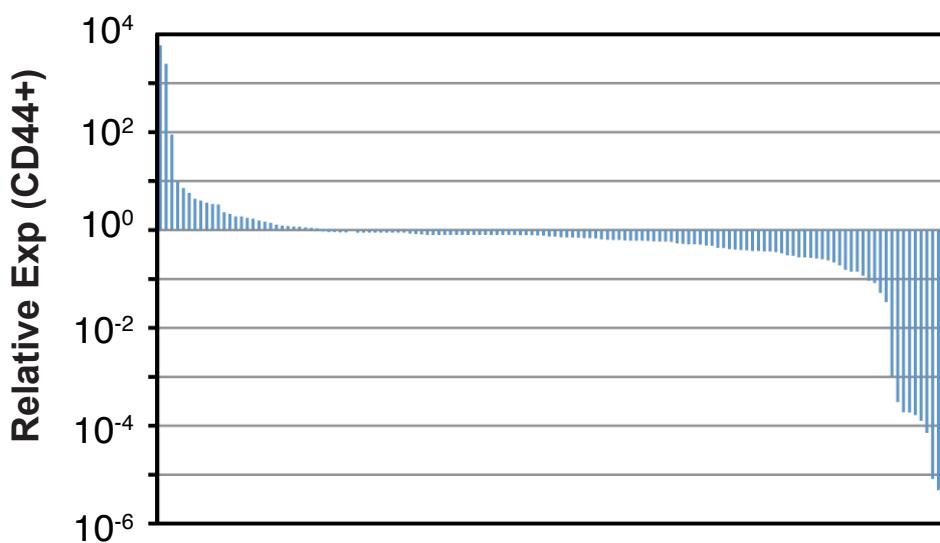
Measure 57 miRNAs in:  
LAPC9: SP/non-SP



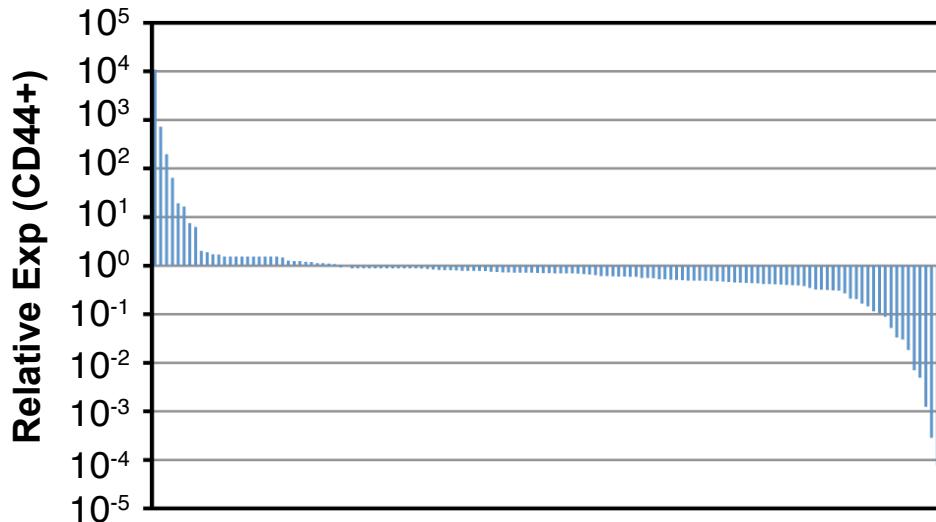
## Identification

2 miRNAs were differentially expressed in all 6 marker-positive populations

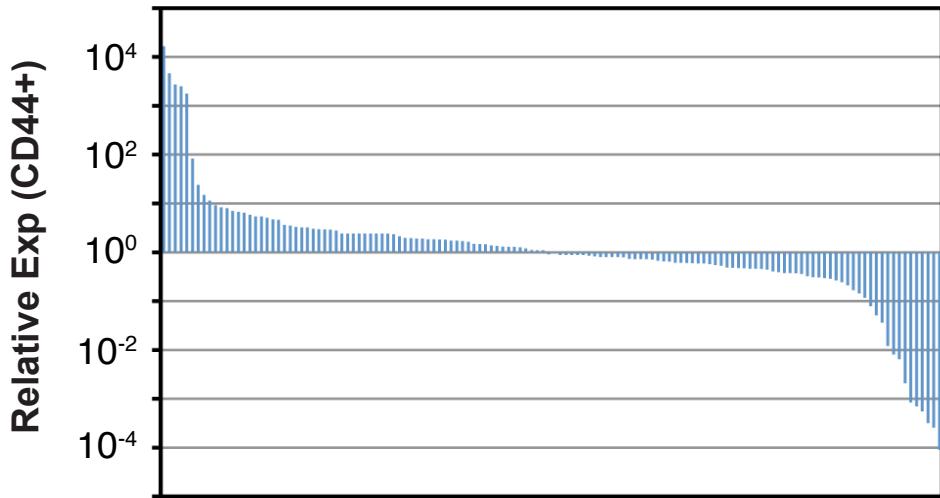
Supplementary Fig. S1

**A****LAPC4 CD44<sup>+</sup> population**

Top up-regulated	Top down-regulated
miR-190	miR-375
miR-142-5p	miR-429
miR-10b	miR-10a
miR-23b	miR-423
miR-127	miR-15a
miR-361	miR-18a
let-7d	miR-199a*
miR-130b	miR-96
miR-22	miR-422a
miR-328	miR-486
	miR-34a

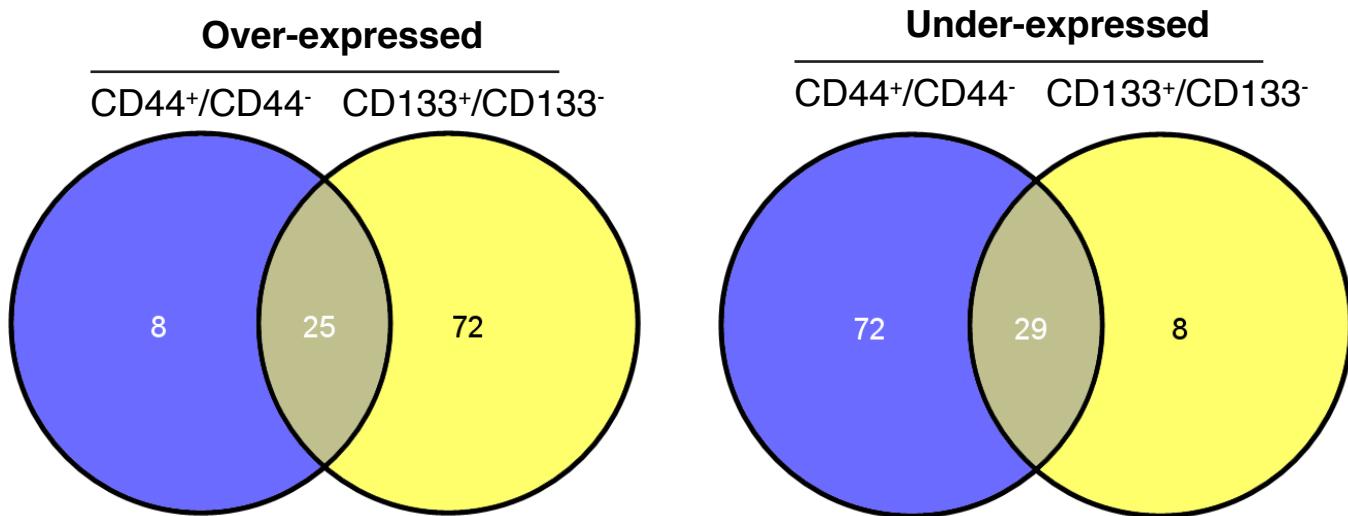
**B****LAPC9 CD44<sup>+</sup> population**

Top up-regulated	Top down-regulated
let-7i	miR-127
miR-133a	miR-34a
miR-33	miR-142-5p
miR-147	miR-422a
miR-433	miR-18a*
miR-486	miR-378
miR-452	miR-10b
miR-19a	miR-422b
miR-133b	miR-199a*
miR-9*	miR-218

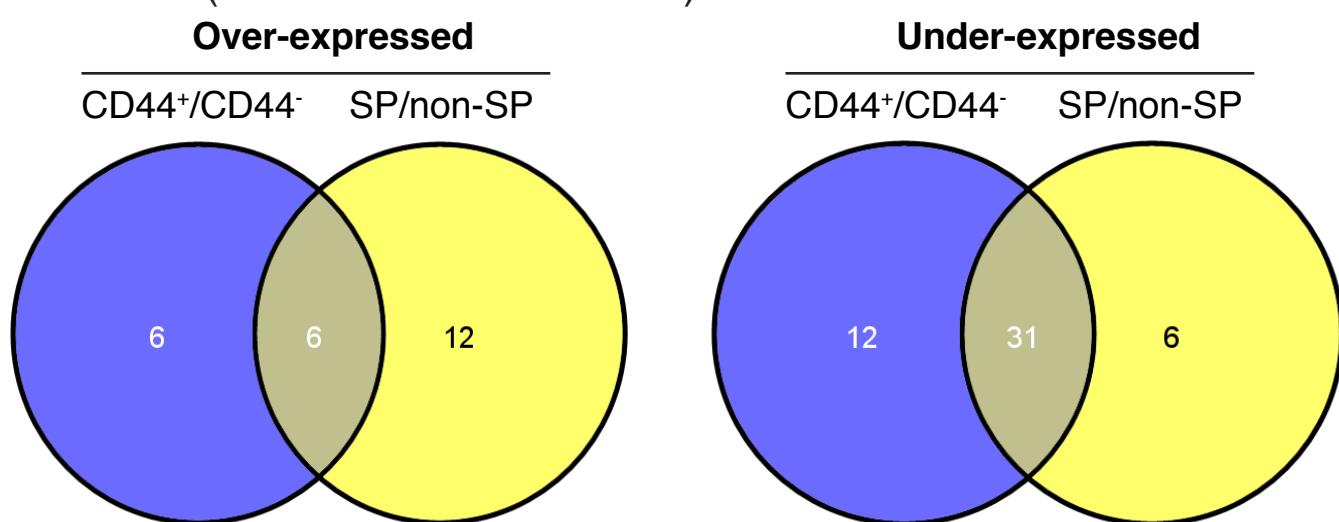
**C****Du145 CD44<sup>+</sup> population**

Top up-regulated	Top down-regulated
miR-451	miR-193a
miR-500	miR-9*
miR-205	miR-127
miR-452	miR-433
miR-142-5p	miR-147
miR-100	miR-378
miR-21	miR-10b
miR-142-3p	miR-203
miR-20b	miR-218
miR-196b	miR-34a

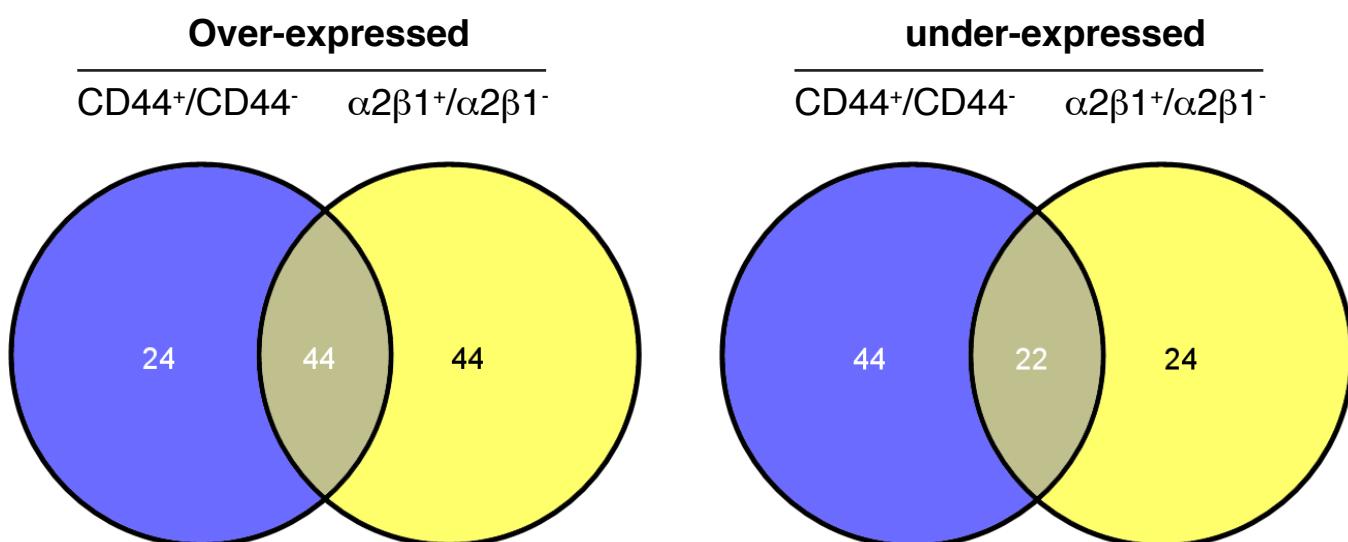
### A LAPC4 (LN metastasis)

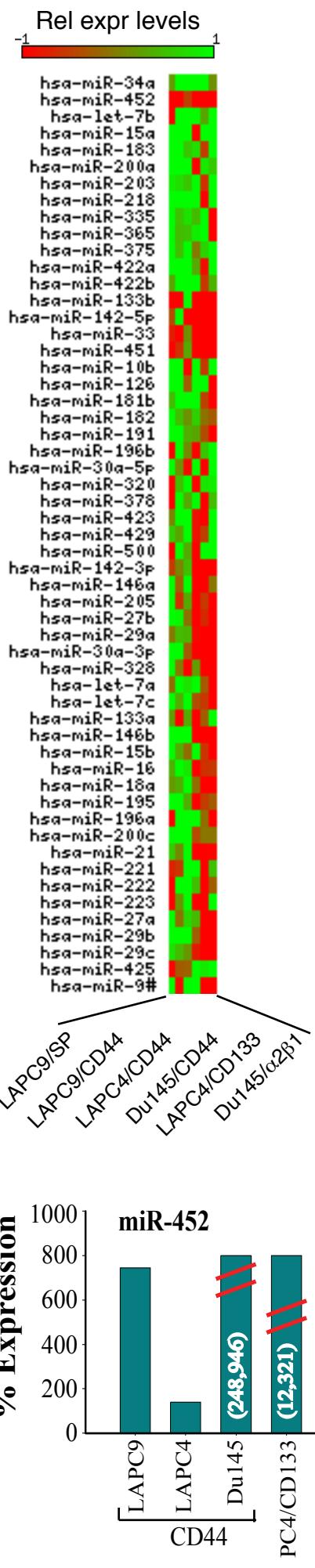
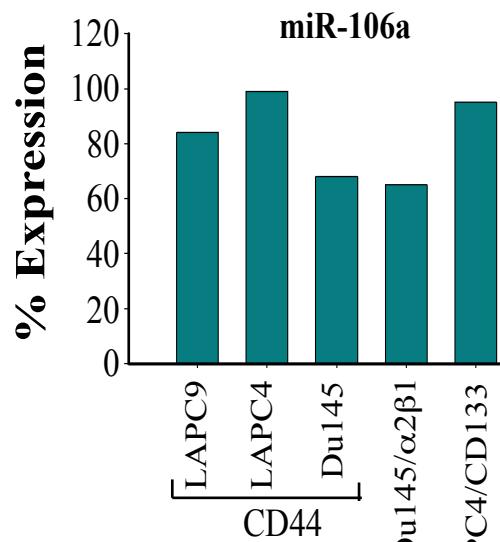
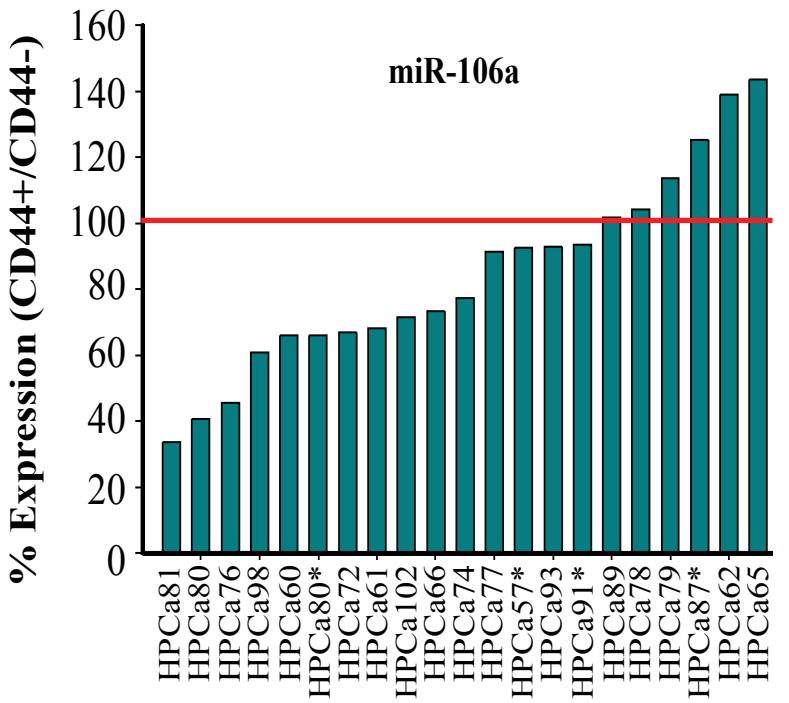
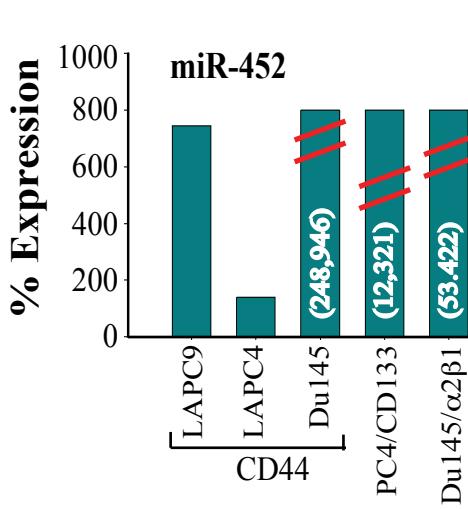
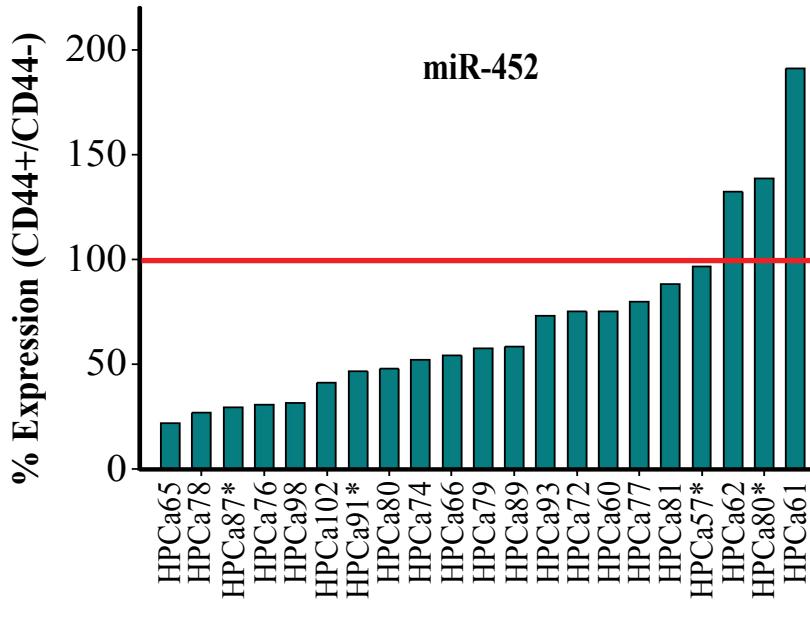


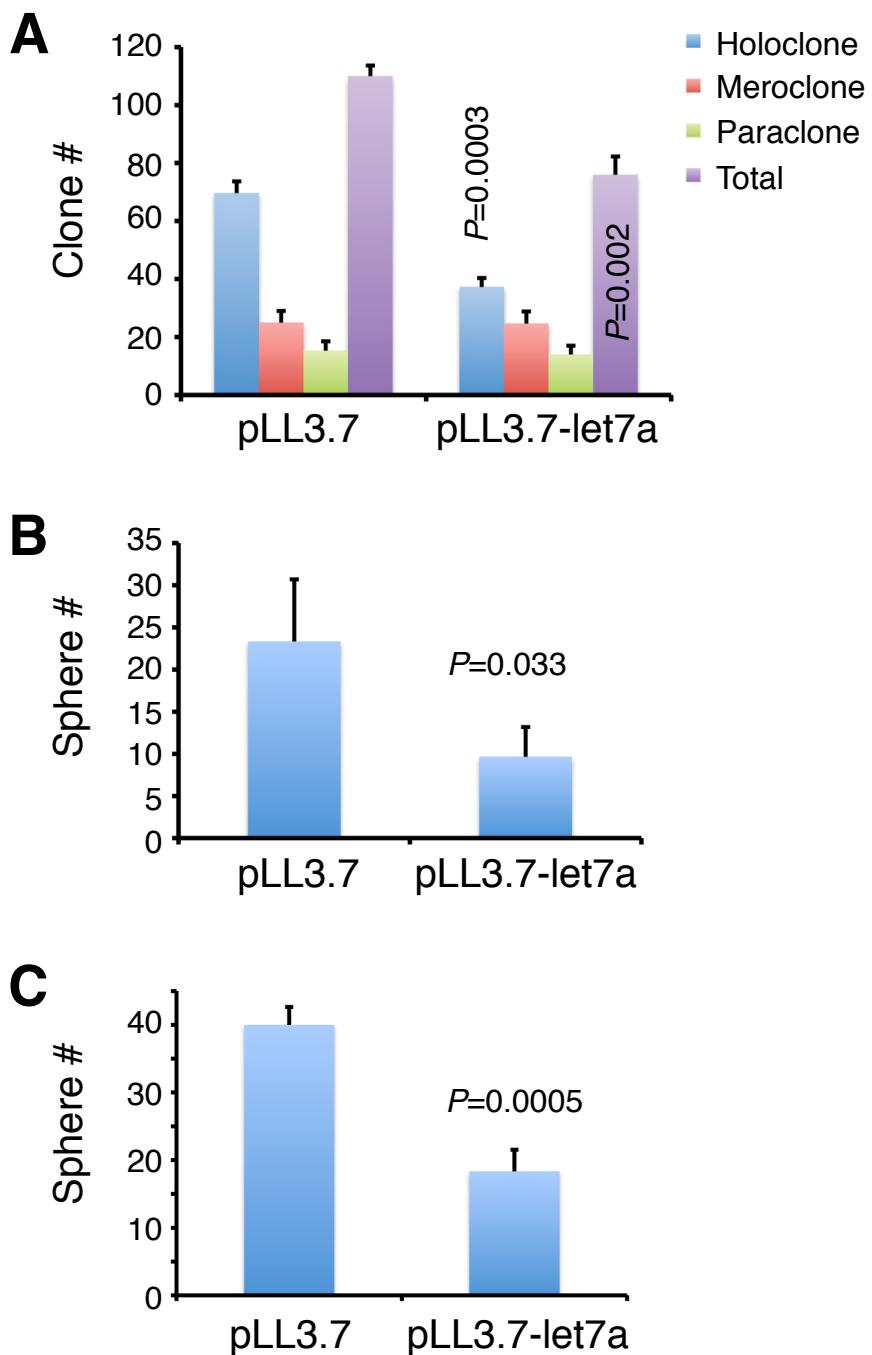
### B LAPC9 (bone marrow metastasis)



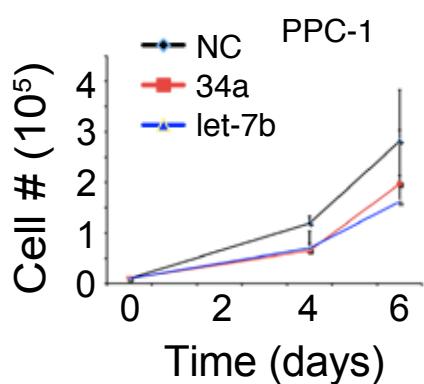
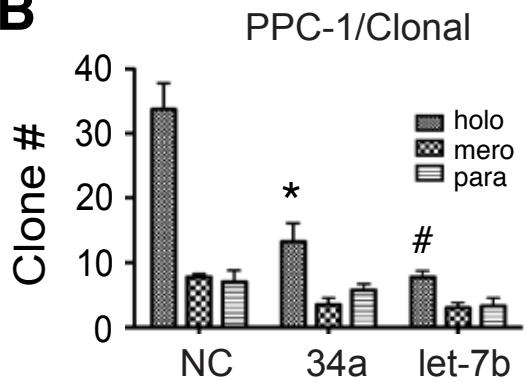
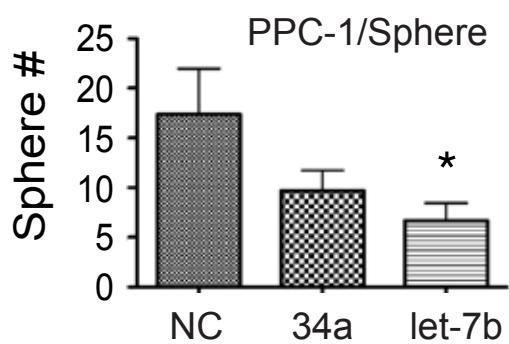
### C Du145 (brain metastasis)



**A****B****C****D****E**

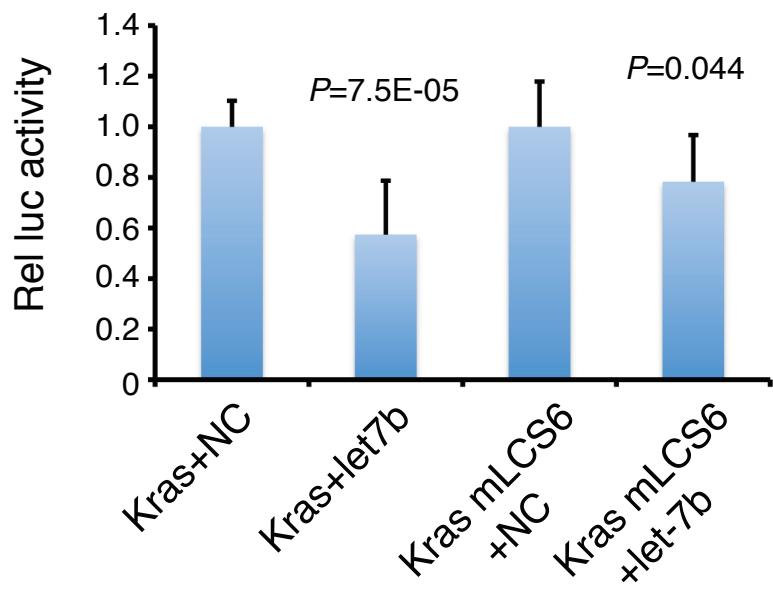


Supplementary Fig. S5

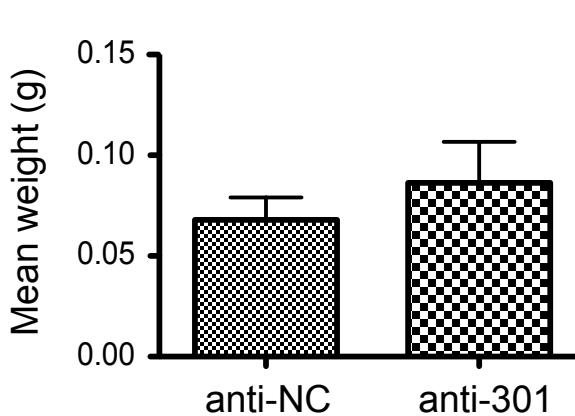
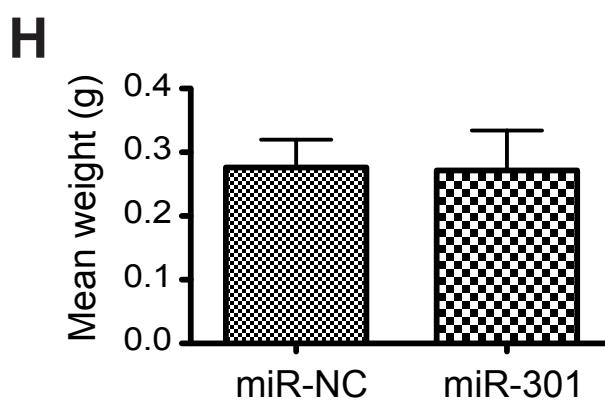
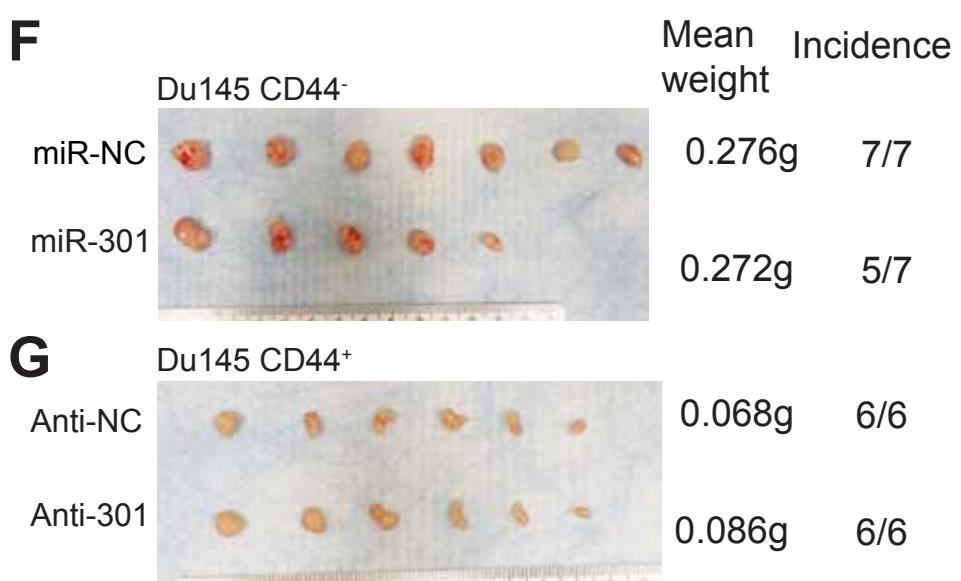
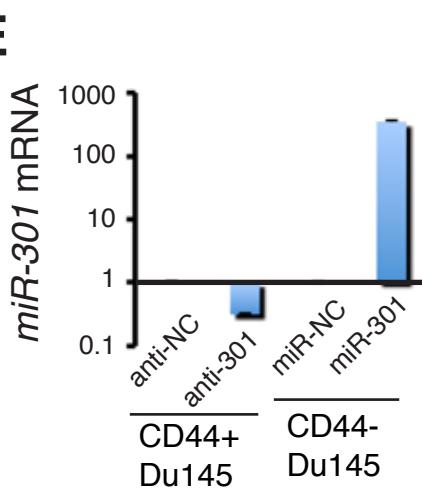
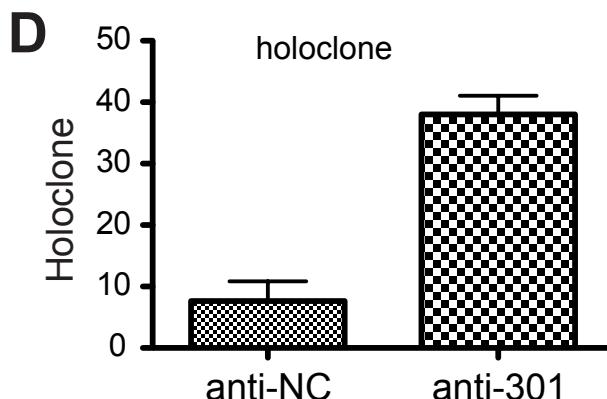
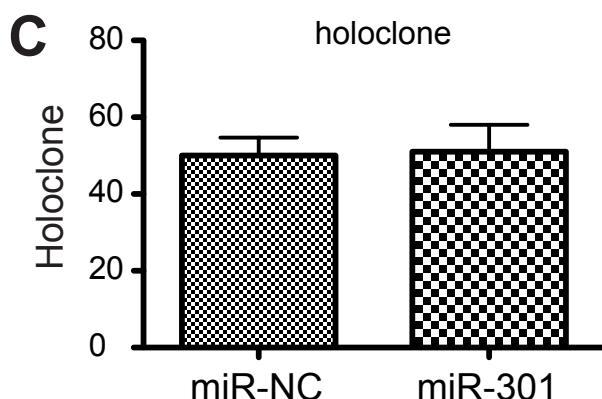
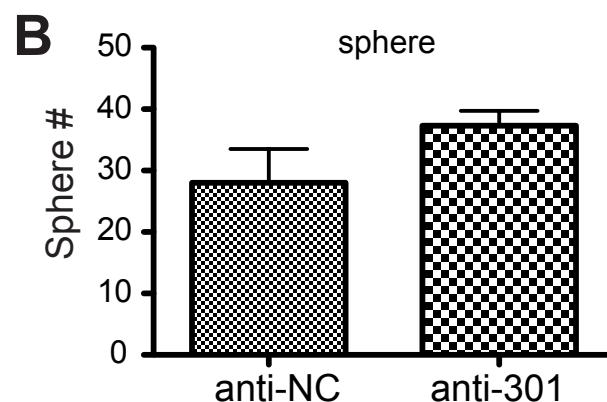
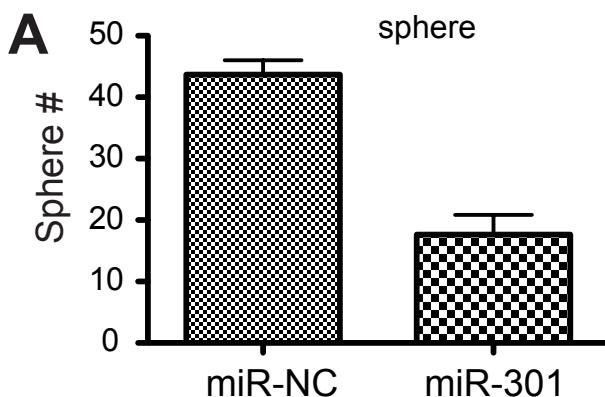
**A****B****C****D**

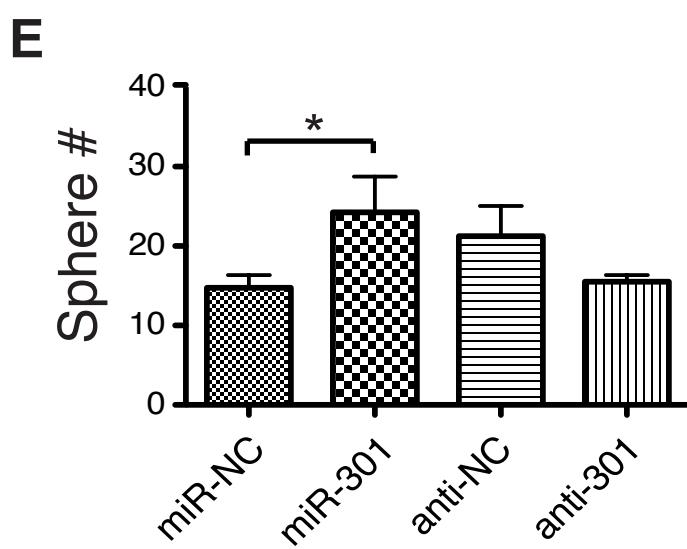
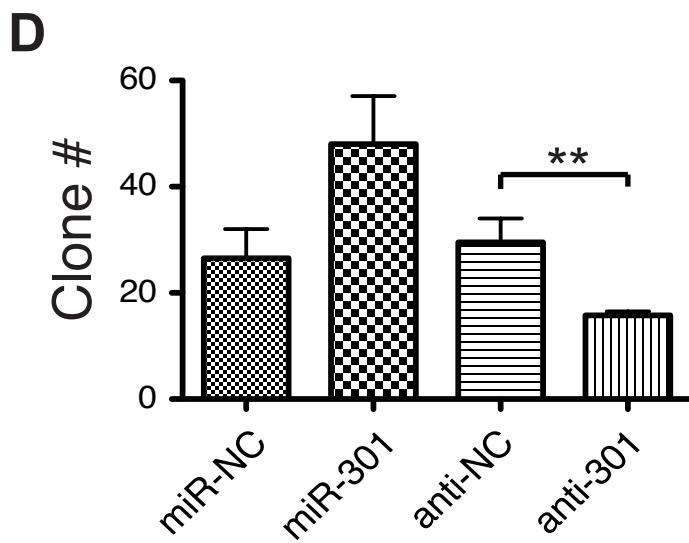
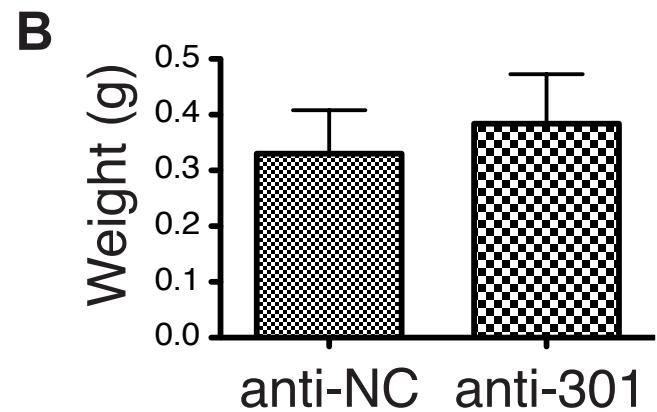
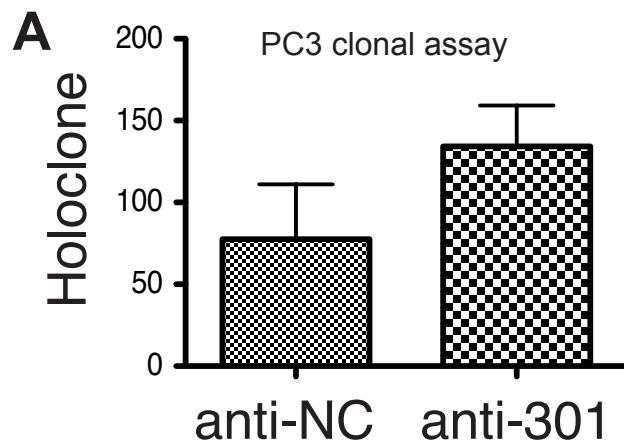
Supplementary Fig. S6

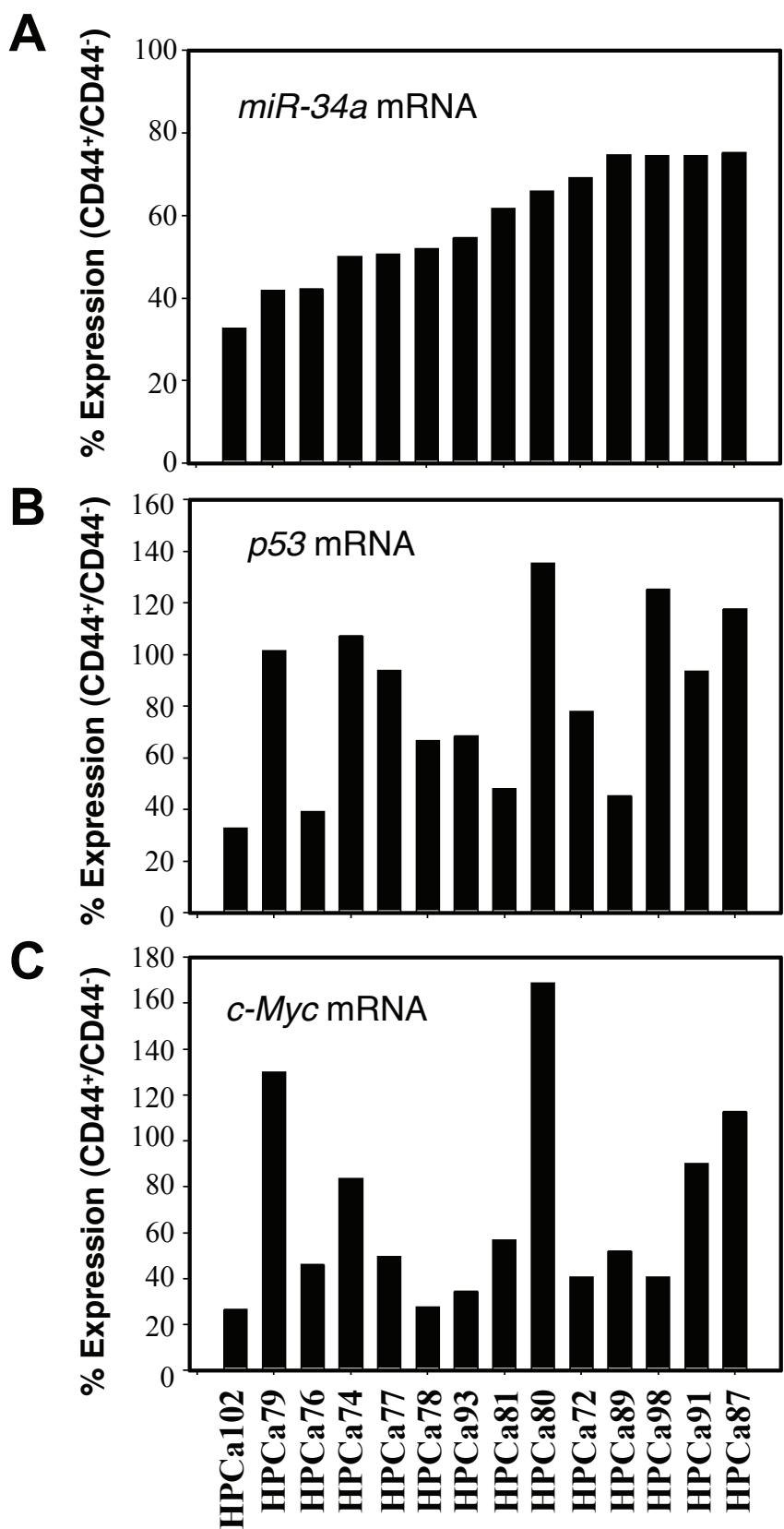
		<i>Incidence</i>	<i>Harvest</i>	<i>Weight (g)</i>	<i>P value</i>
<b>A</b>	A549 (500,000 cells/s.c inj.)	NC	3/3 (100%)	52 d	0.37 ± 0.14
		let-7b	3/3 (100%)	52 d	0.16 ± 0.09 0.05
<b>A</b>	A549 (1,000,000 cells/s.c inj.)	NC	7/7 (100%)	42 d	0.29 ± 0.05
		let-7b	6/7 (86%)	42 d	0.12 ± 0.33 0.007
<b>B</b>	Du145 (100,000 cells/s.c inj.)	NC	2/6 (33.3%)	57 d	0.17 ± 0.16
		let-7b	6/6 (100%)	57 d	0.18 ± 0.13 0.49
<b>B</b>	Du145 (100,000 cells/DP inj.)	NC	4/6 (66.7%)	57 d	0.40 ± 0.34
		let-7b	4/6 (66.7%)	57 d	0.46 ± 0.38 0.38
<b>C</b>	Du145 (100,000 cells/s.c inj.)	NC	5/6 (83.3%)	46 d	0.60 ± 0.26
		let-7b	5/6 (83.3%)	46 d	0.60 ± 0.1 0.49
<b>C</b>	Du145 (100,000 cells/DP inj.)	NC	5/6 (83.3%)	46 d	0.35 ± 0.16
		let-7b	4/6 (66.7%)	46 d	0.41 ± 0.32 0.4
<b>D</b>	LAPC9 (1,000,000 cells/s.c inj.)	NC	7/10 (70%)	33 d	0.42 ± 0.17
		let-7b	10/10 (100%)	33 d	0.56 ± 0.18 0.29



Supplementary Fig. S8







Supplementary Fig. S11